

Fuel injection system for diesel engines.

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Inventor: DELESALLE JACQUES

Applicant: ALSACIENNE CONSTR MECA (FR)

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Abstract of EP0199632

In the electronically controlled fuel-injection system for Diesel engines, the injector comprises a pilot solenoid valve (14) and an injector needle (4) of differential cross-section S1 - S2 - S3, of which the upper part of cross-section S1 forms a needle control piston (44) forming an integral part of the needle. The pilot solenoid valve (14) is a solenoid ball valve (22), and the closing force of the needle (4) is exerted directly and solely by means of the pressure of the fuel on the total upper cross-section S1 of the needle when the pilot solenoid valve (14) is in the deenergised state. The invention makes it possible to obtain a very high accuracy of the closing and opening moments of the needle.

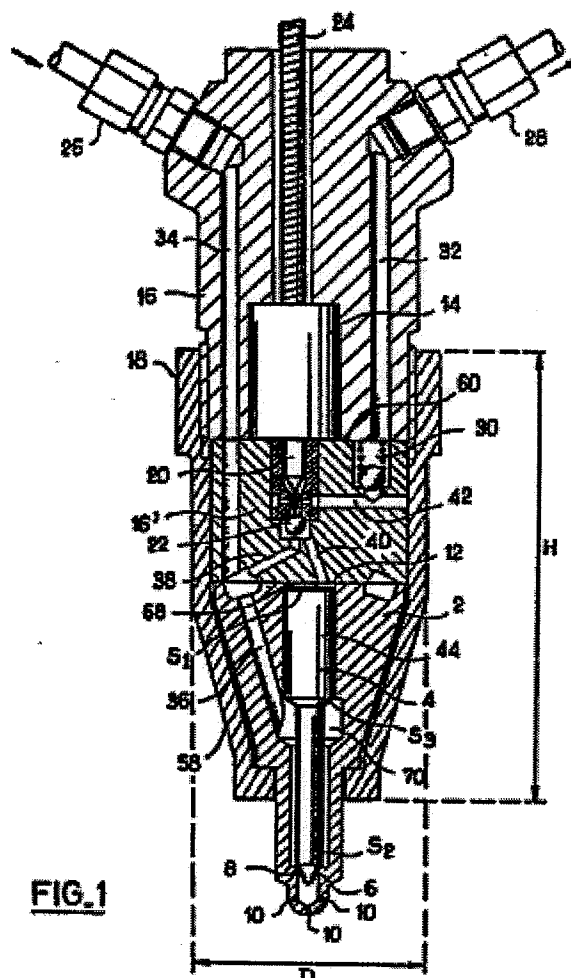


FIG.1

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